

Figure 1

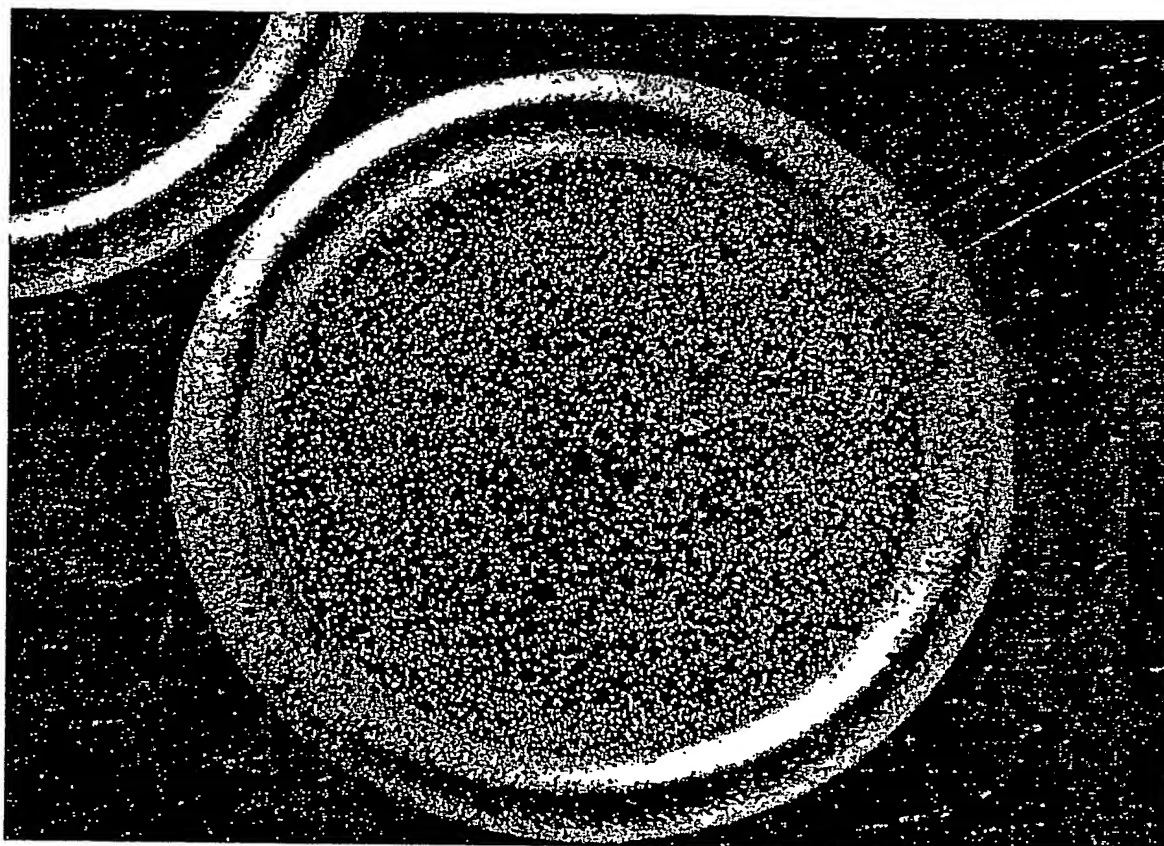


Figure 2

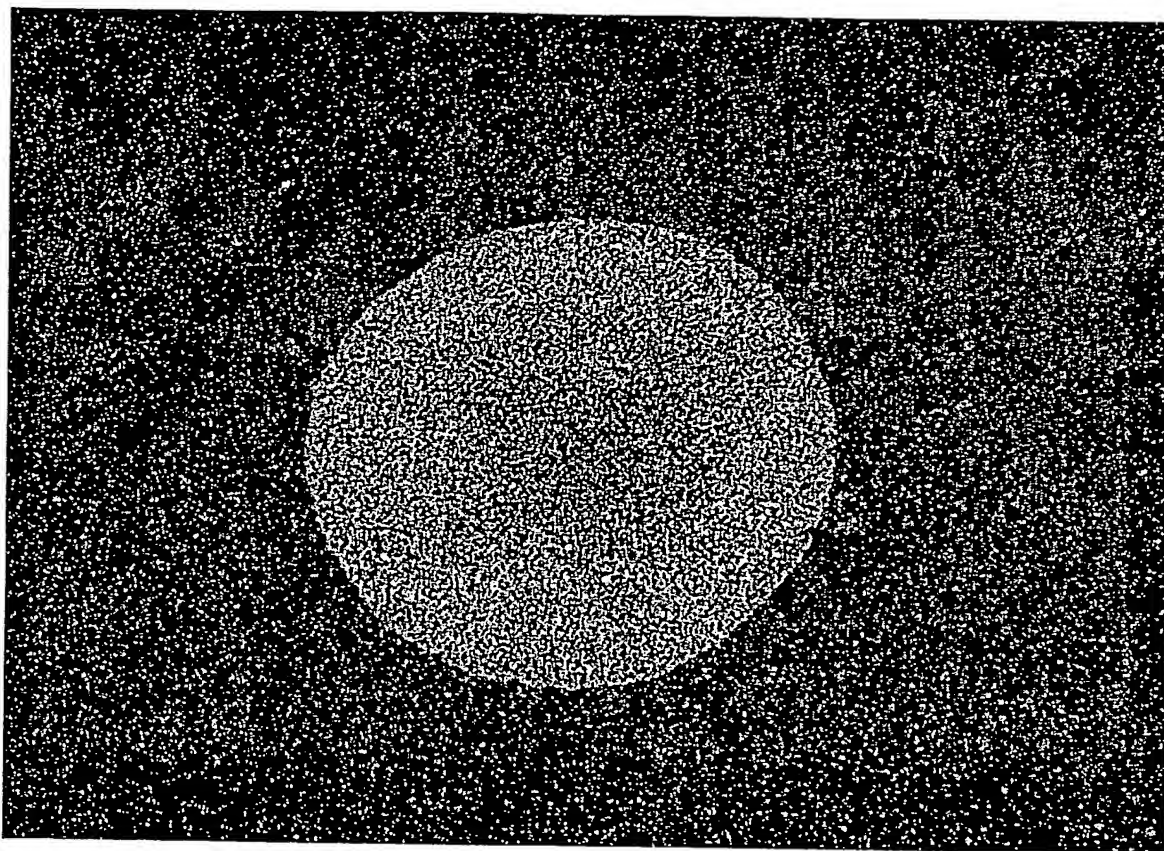


Figure 3

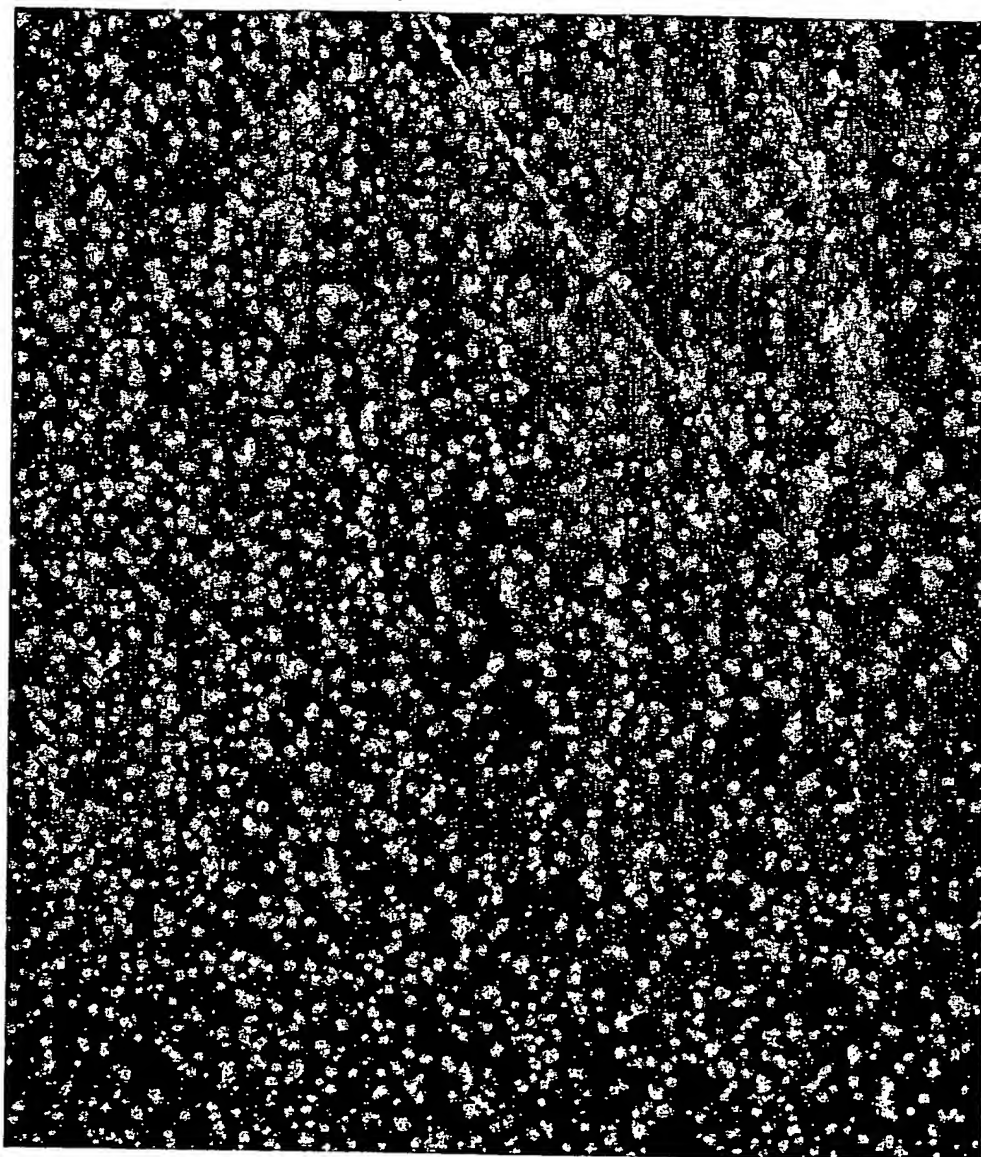


Figure 4

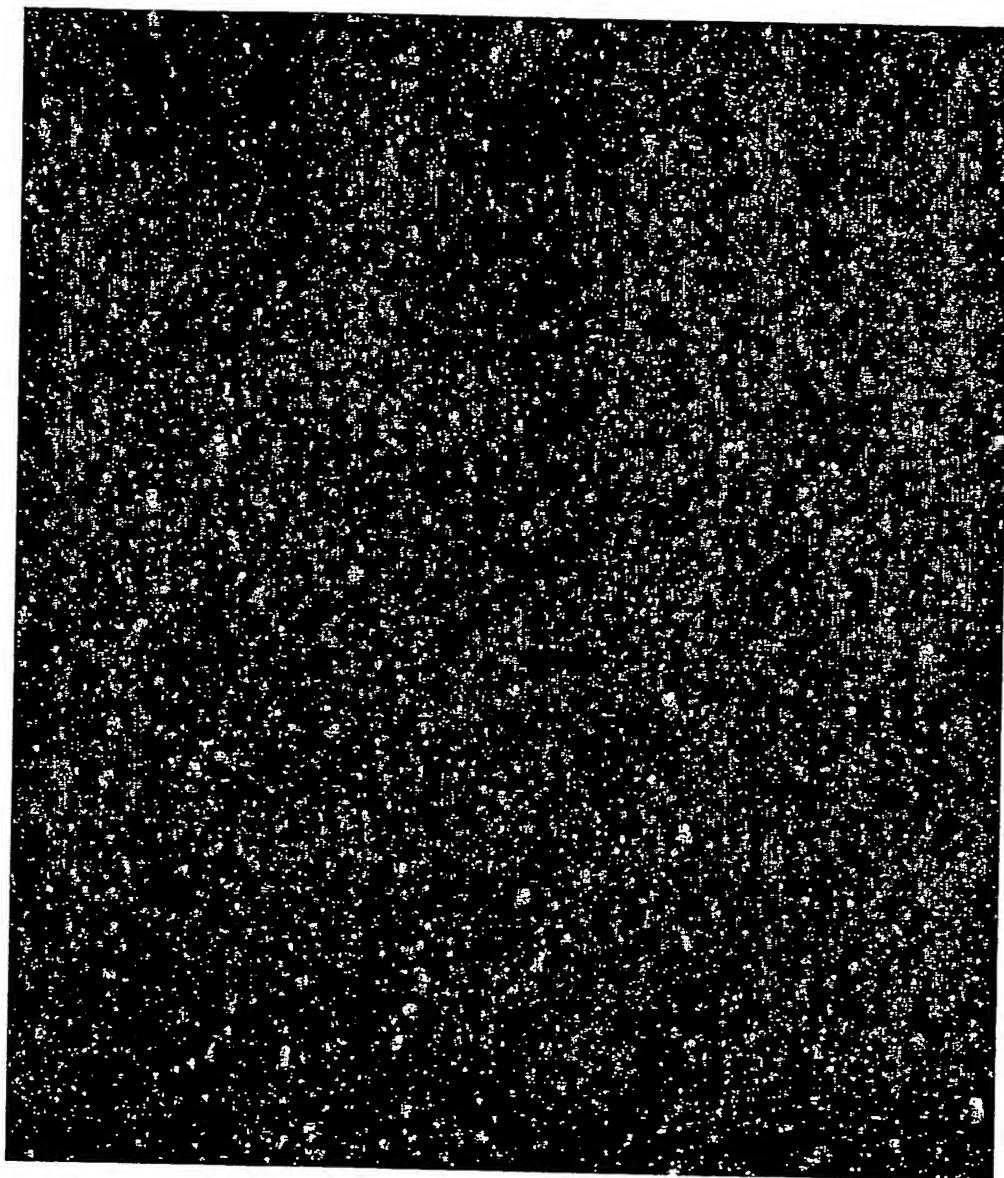


Figure 5

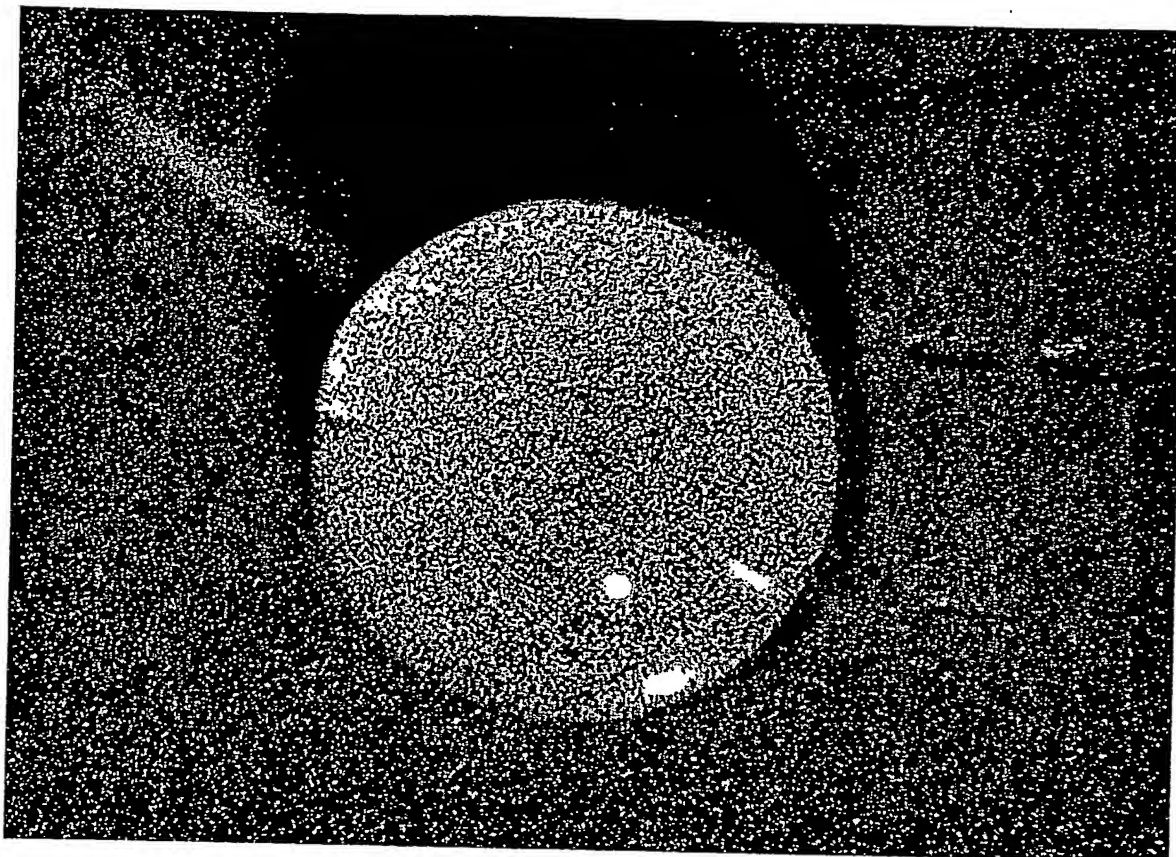
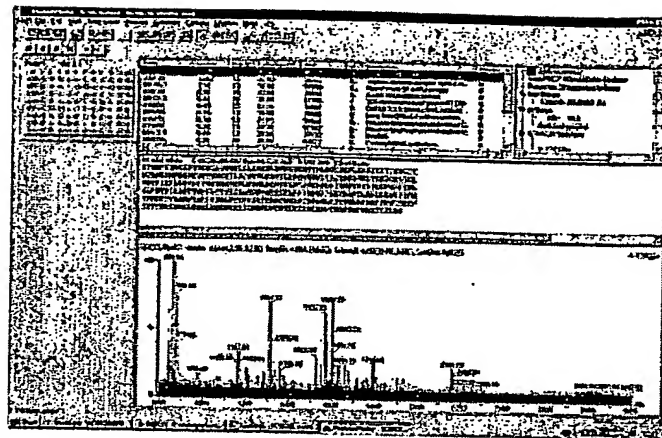


Figure 6

Steel Target



Sample		Silicone/Graphite	Steel without washing	Steel with washing
1	identified Protein	DNAK_ECOLI (P04475)	data quality too poor	DNAK_ECOLI (P04475)
	score	44,3	-	69,88
	no. of matched peptides	29	-	24
	peptide coverage in %	51	-	45
2	identified Protein	RS1_ECOLI (P02349)	CAD26622	RS1_ECOLI (P02349)
	score	32,25	13,05	21,19
	no. of matched peptides	20	16	19
	peptide coverage in %	36	43	34
3	identified Protein	CH60_ECOLI (P06139)	Q8VTM5	CH60_ECOLI (P06139)
	score	37,25	3,46	-7,18
	no. of matched peptides	27	11	13
	peptide coverage in %	59	25	37
4	identified Protein	TIG_ECOLI (P22257)	Q9HU18	Q9EL49
	score	36,76	-10,13	-8,75
	no. of matched peptides	25	6	8
	peptide coverage in %	62	19	34
5	identified Protein	Q9PN60	Q9F260	Q9ECQ1
	score	2,73	-15,04	3,57
	no. of matched peptides	13	7	14
	peptide coverage in %	34	34	48
6	identified Protein	Q9LYL6	ASNA_ECOLI (P00963)	data quality too poor
	score	3,32	-23,98	-
	no. of matched peptides	15	4	-
	peptide coverage in %	47	18	-
7	identified Protein	IMDH_ECOLI (P06981)	data quality too poor	Q8VCN2
	score	27,05	-	-18,03
	no. of matched peptides	16	-	4
	peptide coverage in %	37	-	12

8	identified Protein	DPPA_ECOLI (P23847)	Q9UID7	DPPA_ECOLI (P23847)
	score	20,17	-3,91	-7,7
	no. of matched peptides	18	12	18
	peptide coverage in %	33	43	35
9	identified Protein	ATPA_ECOLI (P00822)	ATPA_ECOLI (P00822)	ATPA_ECOLI (P00822)
	score	10,42	35,83	4,47
	no. of matched peptides	10	21	13
	peptide coverage in %	22	44	27
10	identified Protein	DLDH_ECOLI (P00391)	Q9EED5	DLDH_ECOLI (P00391)
	score	25,16	-10,1	42,23
	no. of matched peptides	18	9	15
	peptide coverage in %	46	26	41
11	identified Protein	LEU2_ECOLI (P30127)	O64862	AAH27312
	score	12,95	6,5	-10,88
	no. of matched peptides	14	15	6
	peptide coverage in %	32	36	21
12	identified Protein	GLYA_ECOLI (P00477)	GLYA_ECOLI (P00477)	Q9NBV1
	score	25,62	14,71	-14,19
	no. of matched peptides	13	18	4
	peptide coverage in %	31	41	22
13	identified Protein	GLYA_ECOLI (P00477)	Q9EI10	Q78557
	score	30,02	18,72	-19,77
	no. of matched peptides	19	16	4
	peptide coverage in %	47	51	46
14	identified Protein	ENO_ECOLI (P08324)	ENO_ECOLI (P08324)	ENO_ECOLI (P08324)
	score	44,01	35,81	39,23
	no. of matched peptides	20	20	15
	peptide coverage in %	57	52	30

15	identified Protein	Q9NUJ5	EFTU_ECOLI (P02990)	Q97GN2
	score	25,39	56,52	10,07
	no. of matched peptides	16	14	9
	peptide coverage in %	59	49	12
16	identified Protein	PGK_ECOLI (P11665)	PGK_ECOLI (P11665)	PGK_ECOLI (P11665)
	score	41,74	71,27	0,52
	no. of matched peptides	19	24	17
	peptide coverage in %	61	66	47
17	identified Protein	LIVJ_ECOLI (P02917)	LIVJ_ECOLI (P02917)	LIVJ_ECOLI (P02917)
	score	32,87	36,71	24,79
	no. of matched peptides	11	12	11
	peptide coverage in %	26	27	26
18	identified Protein	EFTS_ECOLI (P02997)	EFTS_ECOLI (P02997)	EFTS_ECOLI (P02997)
	score	21,65	24,42	38,5
	no. of matched peptides	14	13	17
	peptide coverage in %	61	35	50
19	identified Protein	MDH_ECOLI (P06994)	MDH_ECOLI (P06994)	YDCM_ECOLI (P76102)
	score	32,17	14,51	19,45
	no. of matched peptides	16	13	19
	peptide coverage in %	57	45	33
20	identified Protein	CYSK_ECOLI (P11096)	CYSK_ECOLI (P11096)	CYSK_ECOLI (P11096)
	score	39,06	-3,7	17,71
	no. of matched peptides	15	10	13
	peptide coverage in %	57	39	54
21	identified Protein	ZNUA_ECOLI (P39172)	RF1_MYCPU (Q98RA5)	Q9NZE9
	score	32,39	-10,23	28,89
	no. of matched peptides	13	5	13
	peptide coverage in %	48	11	33

22	identified Protein	HISJ_ECOLI (P39182)	HISJ_ECOLI (P39182)	HISJ_ECOLI (P39182)
	score	30,31	-1,62	-12,84
	no. of matched peptides	14	11	11
	peptide coverage in %	50	40	53
23	identified Protein	AROG_ECOLI (P00886)	GLTD_ECOLI (P09832)	AROG_ECOLI (P00886)
	score	21,39	1,42	-1,21
	no. of matched peptides	17	12	10
	peptide coverage in %	50	28	34
24	identified Protein	G3P1_ECOLI (P06977)	Q9VR05	Q9UWZ0
	score	-5,39	-5,89	-20,32
	no. of matched peptides	11	11	4
	peptide coverage in %	42	34	19
25	identified Protein	G3P1_ECOLI (P06977)	G3P1_ECOLI (P06977)	G3P1_ECOLI (P06977)
	score	26,12	-1,71	18,13
	no. of matched peptides	15	10	10
	peptide coverage in %	59	50	39
26	identified Protein	SURA_ECOLI (P21202)	GATM_PIG (P50441)	SURA_ECOLI (P21202)
	score	23,11	31,54	-3,38
	no. of matched peptides	19	12	14
	peptide coverage in %	38	27	32
27	Identified Protein	AAH03774	AAL78318	AAH25541
	score	4,16	1,49	-21,36
	no. of matched peptides	15	12	4
	peptide coverage in %	44	47	10
28	Identified Protein	TRPB_ECOLI (P00932)	O98097	TRPB_ECOLI (P00932)
	score	14,19	-16,84	-12,15
	no. of matched peptides	14	4	10
	peptide coverage in %	52	43	24

29	identified Protein	TRPB_ECOLI (Q8X7B6)	O31310	Q947A5
	score	10,62	-6,97	-8,87
	no. of matched peptides	16	8	10
	peptide coverage in %	47	35	35
30	identified Protein	CARA_ECOLI (P00907)	Q23796	Q9L357
	score	24,98	-24,67	-7,41
	no. of matched peptides	14	4	8
	peptide coverage in %	43	13	15
31	identified Protein	SUCD_ECOLI (P07459)	Q9EKC6	GALS_ECOLI (P25748)
	score	0,43	-24,49	-2,51
	no. of matched peptides	7	4	9
	peptide coverage in %	30	22	31
32	identified Protein	SUCD_ECOLI (P07459)	Q92WT8	SUCD_ECOLI (P07459)
	score	11,13	-16,84	-3,03
	no. of matched peptides	11	5	10
	peptide coverage in %	44	18	45
33	identified Protein	Q14533 (Keratin)	K1M2_SHEEP (P25690)	Q28582 (Keratin)
	score	19,46	11,95	38,01
	no. of matched peptides	21	14	20
	peptide coverage in %	40	31	38
34	identified Protein	RS2_ECOLI (P02351)	Q9XW07	RS2_ECOLI (P02351)
	score	20,9	-4,04	10,54
	no. of matched peptides	12	11	8
	peptide coverage in %	38	40	38
35	identified Protein	ARGT_ECOLI (P09551)	ARGT_ECOLI (P09551)	Q8VXK3
	score	22,18	27,81	8,63
	no. of matched peptides	14	16	9
	peptide coverage in %	50	63	23

	identified Protein	FLIY_ECOLI (P39174)	FLIY_ECOLI (P39174)	DAPB_ECO57 (P58209)
36	score	53,53	21,99	-4,59
	no. of matched peptides	14	9	8
	peptide coverage in %	49	27	47
	identified Protein	Q9RCJ3	Q9K2N9	Q9ZTP0
37	score	20,14	-7,26	0,31
	no. of matched peptides	15	9	11
	peptide coverage in %	35	22	23
	identified Protein	TPIS_ECOLI (P04790)	Q33364	O44593
38	score	19,47	3,07	6,67
	no. of matched peptides	12	10	14
	peptide coverage in %	41	23	26
	identified Protein	Q9TQ74	Q9EF71	ARTJ_ECOLI (P30860)
39	score	10,09	-19,47	-9,26
	no. of matched peptides	11	4	8
	peptide coverage in %	28	14	45
	identified Protein	TRPA_ECOLI (P00928)	Q9LV79	TRPA_ECOLI (P00928)
40	score	7,35	-12,23	9,38
	no. of matched peptides	10	6	13
	peptide coverage in %	46	34	56
	identified Protein	AAL90243	Q67371	Q20218
41	score	1,72	-2,01	16,52
	no. of matched peptides	12	7	16
	peptide coverage in %	37	29	47
	identified Protein	PMG1_ECOLI (P31217)	PMG1_ECOLI (P31217)	PMG1_ECOLI (P31217)
42	score	27,99	0,5	6,54
	no. of matched peptides	15	7	10
	peptide coverage in %	56	27	37

43	identified Protein	YODA_ECOLI (P76344)	Q98NV8	YODA_ECOLI (P76344)
	score	7,16	4,63	3,93
	no. of matched peptides	5	10	5
	peptide coverage in %	21	25	19
44	identified Protein	Q9E6M0	YNEC_ECOLI (P76144)	Q9F753
	score	26,85	-22,18	-3,97
	no. of matched peptides	13	4	7
	peptide coverage in %	34	13	18
45	identified Protein	GLNH_ECOLI (P10344)	GLNH_ECOLI (P10344)	Q90EU5
	score	17,29	-3,65	-17,39
	no. of matched peptides	10	8	4
	peptide coverage in %	50	32	35
46	identified Protein	AHPC_ECOLI (P26427)	AHPC_ECOLI (P26427)	Q8XKG2
	score	42,25	10,75	-19,82
	no. of matched peptides	14	10	4
	peptide coverage in %	73	51	15
47	identified Protein	Q9NV51	BAB88645	O92108
	score	-5,01	-13,79	-19,45
	no. of matched peptides	4	8	4
	peptide coverage in %	8	26	41
48	identified Protein	Q96M01	DNAJ_RHOSP (O08356)	Q9X9N4
	score	-1,18	-1,91	-13,11
	no. of matched peptides	9	9	4
	peptide coverage in %	23	22	11
49	identified Protein	O01622	Q8U7H2	O37399
	score	0,46	-4,45	-12,03
	no. of matched peptides	7	10	5
	peptide coverage in %	16	40	9

	identified Protein	Q90ZT5	O74651	Q9IZ27
50	score	-5,46	-9,44	-11,88
	no. of matched peptides	9	11	6
	peptide coverage in %	34	38	21
	identified Protein	RL9_ECOLI (P02418)	Q97M24	RL9_ECOLI (P02418)
51	score	2,95	-2,2	2,1
	no. of matched peptides	6	8	7
	peptide coverage in %	38	34	37
	Identified Protein	METE_ECOLI (P25665)	GSHB_BUCAI (P57612)	YDIP_ECOLI (P77402)
52	score	14,54	-2,18	-20,68
	no. of matched peptides	26	10	4
	peptide coverage in %	33	33	10
	Identified Protein	METE_ECOLI (P25665)	METE_ECOLI (P25665)	O95958
53	score	25	7,59	8,77
	no. of matched peptides	25	14	18
	peptide coverage in %	34	15	40
	Identified Protein	METE_ECOLI (P25665)	O45505	Q9HVVU0
54	score	44,23	-18,87	-14,26
	no. of matched peptides	26	4	5
	peptide coverage in %	40	12	17
	identified Protein	EFG_ECOLI (P02996)	EFG_ECOLI (P02996)	Q9EHF6
55	score	42,63	4,42	-4,51
	no. of matched peptides	25	19	9
	peptide coverage in %	45	33	13
	identified Protein	Q9X788	data quality too poor	Z265_MOUSE (Q9R020)
56	score	3	-	-0,92
	no. of matched peptides	10	-	7
	peptide coverage in %	41	0,92	12
Number of positive identified proteins		43	19	25
Percentage of positive identified proteins		77	34	45
Total Time for data acquisition/database search		145.6 min	257.6 min	257.6 min
acquisition/database search time per sample		2.6 min	4.6 min	4.6 min

Figure 7

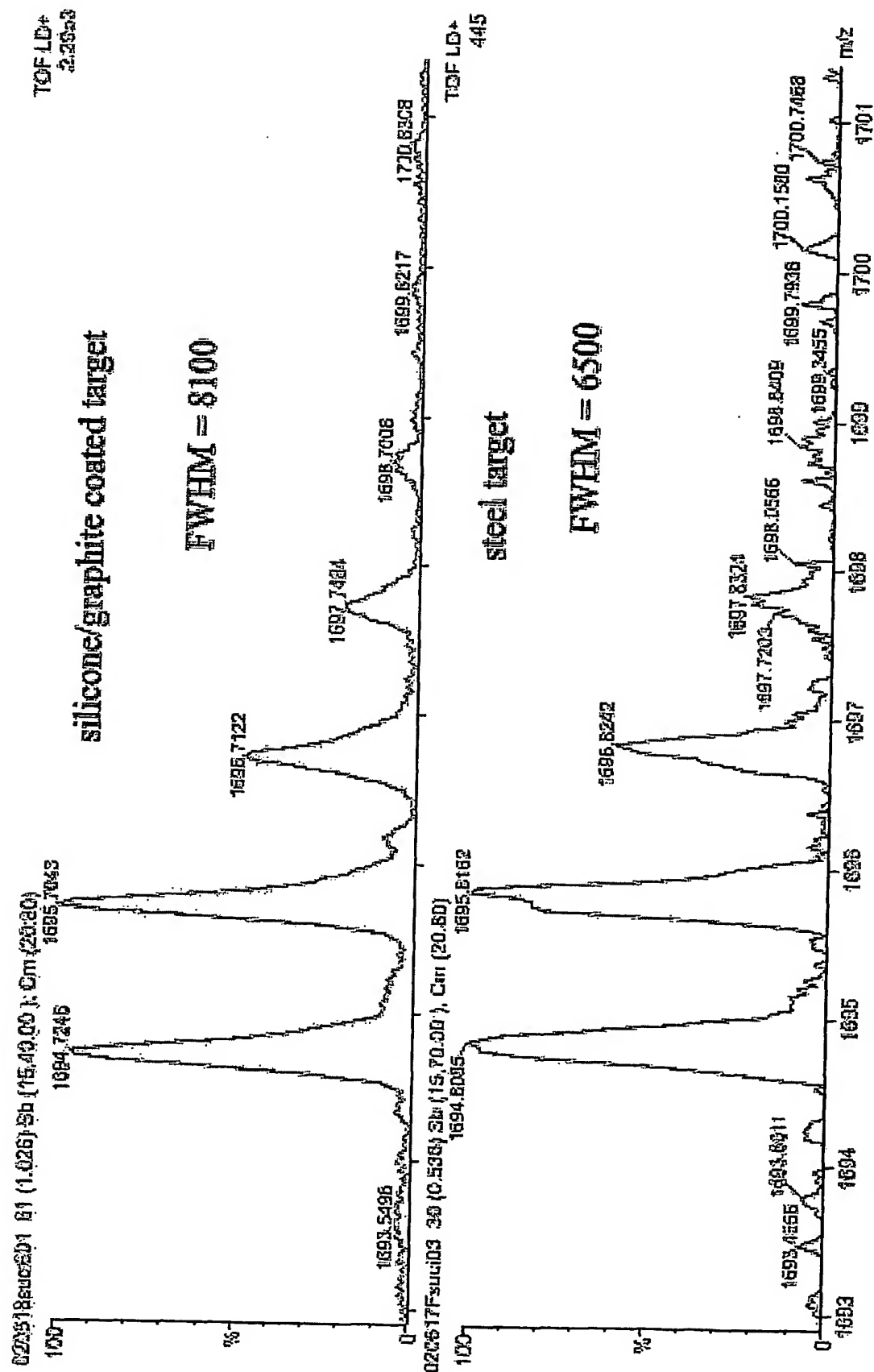
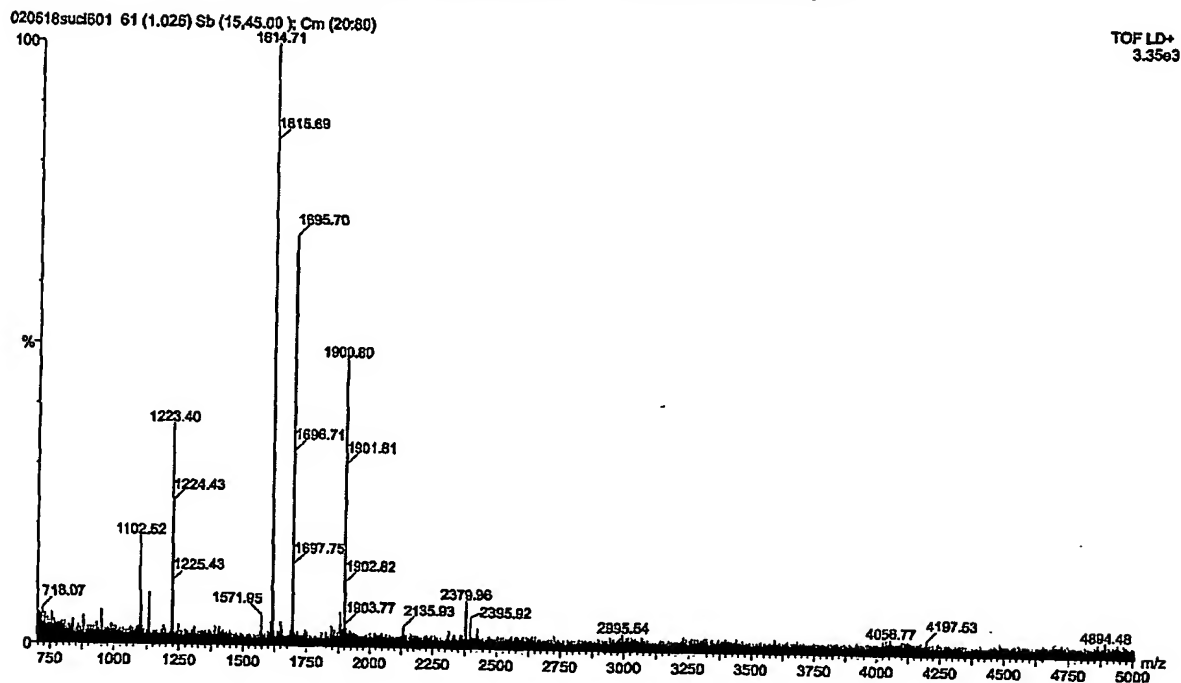


Figure 8

Comparison of the signal intensities

silicone/graphite coated target



steel target

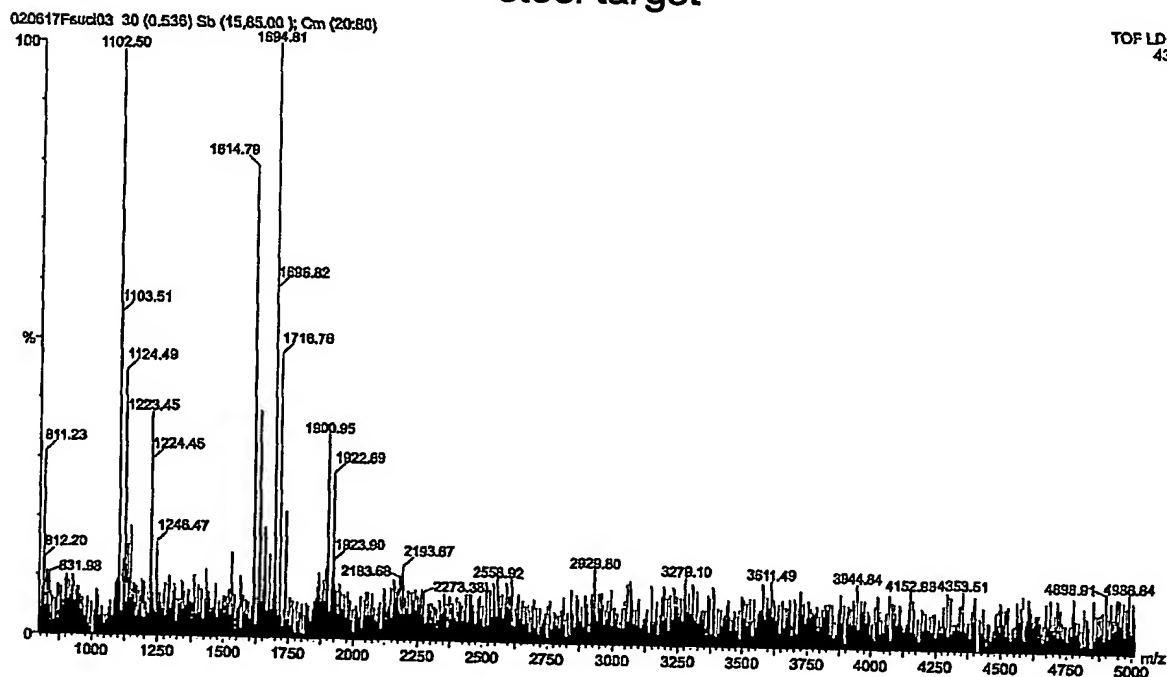


Figure 9

